

Methanotrophs metabolise and convert methane into carbon-di-oxide. They can effectively reduce the emission of methane, which is the second most important greenhouse gas (GHG) and 26 times more potent as compared to carbon-di-oxide. **So statement 1 is not correct.**

In rice fields, methanotrophs are **active near the roots or soil-water interfaces.** The team found that there was a decrease in methane emissions in inoculated plants with a positive or neutral effect on the growth of the rice. This could lead to the development of microbial inoculants for methane mitigation in rice. Rice fields contribute to nearly 10% of global methane emissions. **So, statement 2 is correct.**

Methanotrophs can also be used in methane value addition (valorization) studies. Bio-methane generated from waste can be used by the methanotrophs and can be converted to value-added products such as single-cell proteins, carotenoids, biodiesel, and so on. **So statement 3 is correct.**

Therefore, the correct answer is (c).

Q95. Answer: (b)

Explanation: 'Commonwealth of Nations', formerly called the British Commonwealth is an intergovernmental organisation of 53 member states that were mostly territories of the former British Empire. Mozambique and Rwanda are also its members, who were never colonies of Britain. **So, statement 1 is not correct.**

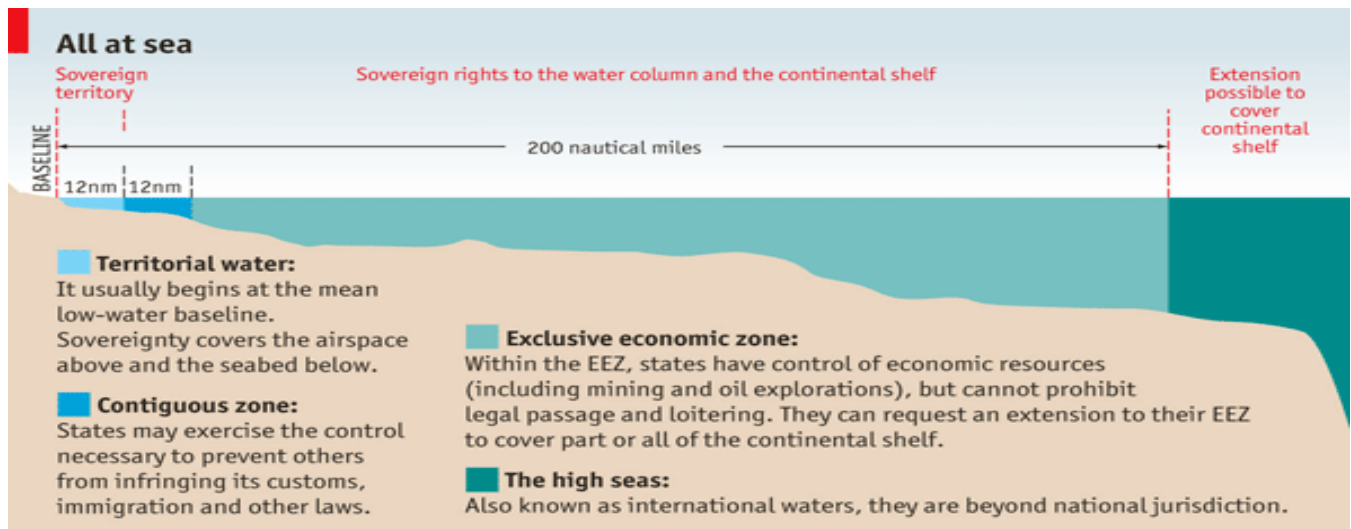
This was set up after the Second World War (in 1949) by Britain, to maintain close economic ties with its erstwhile colonies that were now rapidly becoming independent. It is not a trade block. It aims to promote democracy, human rights, world peace etc. Commonwealth countries, in theory, do not consider each other 'foreign', and hence send 'High Commissioners' and not 'Ambassadors'. **So, statement 2 is correct.**

Several countries (such as Britain, Caribbean islands) grant the right to vote to any commonwealth country citizen residing in their territory to vote in their elections. In non-commonwealth countries, commonwealth countries can seek assistance at the British embassy, in case their own country does not have consular services in that country.

Therefore, the correct answer is (b).

Q96. Answer: (b)

Explanation:



The Exclusive Economic Zone (EEZ) comprises an area which extends from the coast (Base Line) to 200 nautical miles (370 kilometres) off the coast.

Therefore, the correct answer is (b).

Q97. Answer: (a)

Explanation: